



# MEMO for RECORD

Date: 04/14/2011

Subject: Required Documents for Attachment 1 - Prop 1E Stormwater Solicitation

To: Grant Review Team - Department of Water Resources

This document is attachment: att1\_SWF\_Eligible\_1of3

The following items are available for review as required for Attachment 1 of the solicitation package.

1. A copy of the RD 784 Board Resolution No. 2011-03-01, authorizing the General Manager of RD 784 to submit a Prop1E Stormwater Grant Proposal.
2. RD 784 is a "Local Agency" as defined in Appendix B of the Guidelines. Documents provided include:
  - a. Copy of the first page and the last three pages of the RD 784 By-Laws establishing the Reclamation District on May 6th, 1908. This document does not have any signatures as the original documents were lost in the 1986 flood.
  - b. "Yuba County Municipal Services Review", this document shows the history and current status of RD 784.
3. The attached RD 784 Board Resolution No. 2011-0301 and the above documents give the General Manager of RD 784 the legal authority to enter into a grant agreement with the State of California for the purposes of this grant.
4. Should this grant application be successful, the RD 784 Board is prepared to enter into an agreement with MGH Engineering Services in Marysville California for the construction oversight of the grant. This agreement will include all pre-construction site development, permitting, bidding, construction oversight, and accounting of funds.

5. GWMP Compliance: attached documents include:
  - a. Reference to "Groundwater Management and Recharge Projects"
  - b. Copy of the Yuba County Groundwater Management Plan as prepared by the Yuba County Water Agency, dated December 2010. (att1\_swf\_eligible\_2of3)
6. Consistency with IRWM Plan:
  - a. Description of project
  - b. Copy of IRWM Plan – note pages 6-18 to 6-23 (att1\_swf\_eligible\_3of3)

**BEFORE THE BOARD OF TRUSTEES  
OF RECLAMATION DISTRICT 784**

**In re:**

**RESOLUTION APPROVING THE APPLICATION TO  
OBTAIN STORMWATER FLOOD MANAGEMENT  
GRANT FUNDING PURSUANT TO THE DISASTER  
PREPAREDNESS AND FLOODPREVENTION BOND  
ACT OF 2006.**

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**Res. No. 2011-03-01**

**WHEREAS**, Reclamation District 784 ( the "District") is a reclamation district, formed and operating under the laws of the State of California;

**WHEREAS**, the County of Yuba has previously authorized development within the boundaries of the District, including, but not limited to, the Plumas Lake Specific Plan and the North Arboga Study Area, and said development requires the expenditures of additional monies for the improvement and replacement of existing drainage facilities, the construction of additional new drainage facilities, the replacement of existing equipment and acquisition of new equipment for maintaining drainage facilities, and the upgrade of other resources within the District for providing drainage services to property owners and residents within the District;

**WHEREAS**, the District has previously adopted a Master Drainage Plan which generally specifies the drainage improvements required for new development within the District and implements the District's goals, policies, and objectives for ensuring the District's facilities are sufficient to provide adequate drainage within the District;

**WHEREAS**, the District desires to apply to the California Department of Water Resources to obtain Stormwater Flood Management grant funding pursuant to the Disaster Preparedness and flood prevention bond Act of 2006 (Public Resource Code Sections 5096.800 *et seq.*) in order to repair, replace and construct the drainage facilities required to provide adequate drainage within the District; and

**WHEREAS**, the District's Board of Trustees, prior to the adoption of this Resolution, held a public meeting, noticed in accordance with California law, at which oral and written presentation were permitted, and the District's Board of Trustees considered all presentations submitted;

**NOW, THEREFORE, BE IT RESOLVED** by the Board of Trustees of Reclamation District 784 that application be made to the California Department of Water Resources to obtain Stormwater Flood Management grant funding pursuant to the Disaster Preparedness and Flood Prevention Act of 2006 (Public Resource Code sections 5096.800 *et seq.*), and to enter into an agreement to receive a grant for the DRAINAGE BASIN C

REGIONAL Pumping Station AND DRAINAGE POND

1 President of the Board of Trustees is hereby authorized and directed to prepare the necessary data, conduct investigations, file such application, and execute a grant agreement with the California Department of Water Resources.

The foregoing Resolution was introduced at a regularly scheduled meeting of the District's Board of Trustees, duly held on March 1, 2011, by Trustee SARBDrep ATW21, which motion was seconded by Trustee ROBERT SHINN, and said Resolution was approved and enacted by the following vote:

AYES:	<u>5</u>
NOES:	<u>0</u>
ABSTAIN:	<u>0</u>
ABSENT:	<u>0</u>

Rick Brown  
RICK BROWN, President of the Board of Trustees

ATTEST: STEVEN FORDICE  
SECRETARY, BOARD OF TRUSTEES

Steven L Fordice

APPROVED AS TO FORM  
CARL R. LINDMARK, DISTRICT COUNSEL

Carl R Lindmark



To the Honorable Board of Supervisors of Yuba County, State of California;

The undersigned, your petitioners, present this their petition, and respectfully represent that they are the holders of the title, representing more than one half of certain body of land subject to flood and overflow, hereinafter described, situated wholly in said Yuba County, State of California, which your petitioners desire and propose to have formed and organized into a reclamation district, under and in pursuance of the laws of said state relating thereto, for the purpose of reclaiming the lands therein; that the said body of land is, and the said lands are, susceptible or one mode of reclamation; that the whole number of acres in said body of lands and in said proposed district is Twenty-Two Thousand, seven hundred, sixty-two 01/100 (22,762.01) acres; that the number of acres in each of the several tracts of land embraced within said proposed district, the description of each of said tracts, and the notes, when know, of their respective owners, and, when unknown, then that fact, are hereinafter stated; and none of said lands remain unsold, but all of the same have been reduced to private ownership.-----

That a description by metes and bonds of the exterior boundary lines of said body of land sought by your petitioners to be formed and organized into said proposed reclamation district, is as follows, to wit: -----

Commencing at the quarter section corner between sections 29 and 32 in township 15 north, range 4 east, M.D.B. & M.; thence north following the quarter section line, running north and south, of said section 29, one half mile, to the center of said section 29; thence north following said quarter section line of said section 29; thence due north, one half mile more or less to a point on a line running easterly and westerly parallel with and 200 feet at right angles northerly from the center line of the grade of the California Midland Railroad; thence westerly following said line running easterly and westerly, parallel with and 200 feet at right angles northerly from the center line of the grade of the said California Midland Railroad and its continuation westerly known and called the "Morrison Grade" or "Shelton Grade: and its further continuation westerly beyond the "Hedges Grade" as a protection levee, to a point on a line running northerly and southerly, parallel with and 200 feet at right angles westerly from the center line of the Northern Electric Company's Railroad track running from Marysville to Sacramento; thence southerly following said line running northerly and southerly, parallel with and 200 feet at right angles westerly from the center line of said Northern Electric Company's Railroad track running from Marysville to Sacramento, to a point on a line running northeasterly and southeasterly, parallel with and 200 feet at right angles northwesterly from the center line of "The Farmer's Levee" upon the land of Mrs. Jane Tomb in township 15 north of range 4 east, M. D. B. & M.; thence northwesterly following said line parallel with and 200 feet at right angles northwesterly from the center line of said "The Farmer's Levee" to a point upon a line which is the extension westerly to the Feather River of the quarter section line dividing sections 31 and 32 of township 15 north, range 4 east, M. D. B. and M. into north and south halves, thence south 20\* west to the east bank of the Feather River; thence southerly down and along said east bank of the said Feather River to the junction of said east bank of said Feather River with the northerly bank of Bear River; thence northeasterly up and along said northerly bank of Bear river to the point where said northerly bank of Bear River intersects the east line of section 10 in township 13 north, range 4 east M. D. B. and M.; thence north along said east line of said section 10 one half mile more or less, to the quarter section corner on the east side of said section 10; thence west one mile and a half along the quarter section line which divides aid section 10 and section 9 of township 13 north, range 4 east, M. D. B. and M., into north and south halves, to the center point of said section 9; thence north four miles following the quarter section line which divides sections 9 and 4 of said township of said township 13 north, range 4 east, and sections 22, 28 and 21 of township 14 north, range 4 east, M. D. B. & M., into east and west halves to the center point of said section 21,

Shelton Grade and its further continuation Westerly beyond the Hedges Grade, as a protection levee, to a point on a line running Northerly and Southerly parallel with and 200 feet at right angles Westerly from the center line of the Northern Electric Company's railroad track, running from Marysville to Sacramento; thence Southerly following said line running Northerly and Southerly, parallel with and 200 feet right angles Westerly, from center line of said Northern Electric Company's Railroad track running from Marysville to Sacramento to a point on a line running, North Easterly and South Westerly parallel with and 200 feet at right angles North Westerly from the center line of the Farmer's Levee, upon the land of Mrs. Jane Tomb in township 15, North of Range 4 East M. D. B. & M., thence South Westerly following said line parallel with and 200 feet at right angle North Westerly from the center line of said Farmers Levee, to a point upon a line which is the extension Westerly to the Feather River of the quarter section line dividing sections 31 and 32 of Tp. 15 N., R. 4 E., M. D. B. & M., into North and South Halves, thence, South 20\* West to the East bank of Feather River thence Southerly down and along said East bank of said Feather River to the Junction of said East bank of Feather River with the Northerly bank of Bear River, thence North Easterly up and along said Northerly bank of Bear River to a point where said Northerly bank intersects the East line of section 10 in township 13 North, Range 4 East, M. D. B. & M. thence North along East line of said section 10 one half mile more or less to the quarter section corner on the East side of Section 10, thence West one mile and a half along the quarter section line which divides said section 10 and section 9 of Tp. 13 North, Range 4 East into North and South Halves, to the center point of section 9, thence North three and one half miles to the quarter section corner between sections 21 and 28 of township 14 North, Range 4 East, M. D. B. & M., thence West one half mile to the South West corner of section 21 of township 14 North, Range 4 East, M. D. B. & M., thence North one mile to the corner common to sections 16-17-20- & 21 of township 14 North, Range 4 East, M. D. B. & M., thence West one mile to the corner common to sections 17-18-19 & 20 of township 14 North, Range 4 East, M. D. B. & M., thence North three and one half miles to the quarter section corner between sections 31 and 32 of township 15 North, Range 4 East, M. D. B. & M. , thence West one half mile to the center of said sections 31, thence North one half mile to the quarter section corner between sections 30 and 31 of township 15 North Range 4 East, M. D. B. M., thence East one mile to the point of beginning. -  
-----Done by the order of the Board this fifth day of May, 1908. A. G. Wheaton, Chairman.-----

Attest: - Gordon Bowman (SEAL) County Clerk and Ex-official Clerk of the Board of Supervisors of Yuba County. Recorded at the Request of Gordon Bowman County Clerk, May 6<sup>th</sup> A.D. 1908, at 50 min. past 9 o'clock A.M. -----

Recorder

State of California, Office of Surveyor – General and Register State Land Office.

Sacramento, May 6<sup>th</sup>, 1908.

Mr. S. O. Gunning

County Recorder

Marysville, Cal.





Dear Sir: --

I have this day filed the petition of Howard Reed et al. For the formation of a Reclamation District in Yuba County and the same has been given number 784 and will be so designated in the records of your office hereafter.

Very truly,

W. S. Kingsbury, Surveyor— General & Register State Land Office.

By D. J. Shields, Ass't.

Filed for Record May 6<sup>th</sup> A. D. 1908, at 5 o'clock P. M. -----

Recorder

BY — LAWS OF RECLAMATION DISTRICT NO 784 OF YUBA COUNTY. OFFICE OF THE DISTRICT.

The office of the Trustees of the District, shall be at such Place within or near the District as the Trustees shall select. -----

#### MEETINGS OF TRUSTEES.

The Trustees shall meet monthly on the first Saturday in each month. Special meetings may be called by the President of the Board by giving personal notice to each Trustee at least one day previous to such meeting. -----

#### CLAIMS AND THEIR PAYMENT.

All claims against the District shall be presented in writing to the Board of Trustees and no claim shall be paid except upon the order of a majority of the Board of Trustees, entered on the minutes of the Board, at a regular meeting or at a special meeting, regularly called. -----

#### SECRETARY.

The Trustees may elect a Secretary who may or may not be one of their number, to keep the records and books of the District. -----



PRESIDENT.

The Trustees shall elect one member of their Board as President who shall preside at the meetings; providing that in the absence of the President, a President Pro tem may be chosen by the Trustees present. -----

CONTRACTS.

All written contracts must be signed by a majority of the members of the Board of Trustees before the same shall become binding upon the District. -----

The land owners of Reclamation District No. 784, of Yuba County, hereby adopt the foregoing By-laws as the By-laws of said District. IN WITNESS WHEREOF, we have hereunto set our hands this 6<sup>th</sup> day of May 1908, Howard Reed, Seven Hundred and Sixty Two acres. Cline Bull, One Hundred and Fifty acres. Farm Land Investment Co., By Cline Bull, President. Thirteen Thousand Two Hundred and Sixty-Four and 20/100 acres. -----

Recorded at the Request of Cline Bull May 7<sup>th</sup> A.D. 1908, at 30 min. past 9 o'clock A.M.

## 27. RECLAMATION DISTRICT 784

Reclamation District 784 provides maintenance services to state-owned levees, as well as internal drainage facilities.

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### AGENCY OVERVIEW

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#### FORMATION AND BOUNDARY

Reclamation District (RD) 784 was originally formed on May 6, 1908 as an independent special district. The District was formed to provide internal drainage and protection from flood waters.

The principal act that governs the District is the Reclamation District Act.<sup>341</sup> The principal act empowers RDs to 1) construct, maintain and operate levees, pumping plants, canals, and other diversion and irrigation infrastructure,<sup>342</sup> 2) acquire, maintain and operate irrigation systems (dams, diversion works, canals, pumps) and supply irrigation water to lands within and contiguous to district bounds,<sup>343</sup> 3) construct, maintain, and operate transportation (i.e., roads, bridges, and ferry boats) for access to district facilities and land in the district bounds,<sup>344</sup> and 4) retain an agricultural expert to advise landowners.<sup>345</sup> Districts must apply and obtain LAFCO approval to exercise latent powers or, in other words, those services authorized by the principal act but not provided by the district by the end of 2000.<sup>346</sup>

The District's boundary is primarily within Yuba County, but also extends into Sutter County in limited areas on the eastern bank of the Feather River, as shown in Map B-27. Yuba is the principal county and Yuba LAFCO has jurisdiction.

The boundary area extends north to the Yuba River southern levee, west to the inside of the Feather River levee (i.e., the levee toe), south to the inside of the Bear River levee, and east to the community of Linda in the northeast, the old Western Pacific Railroad in the central portion, and beyond SR 70 in the southeast. There are four holes in the District north of Plumas Arboga Road in the eastern area of the District. The boundaries encompass approximately 33 square miles.

According to the LAFCO record, no SOI has been established for the District.

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<sup>341</sup> California Water Code, Division 15, §50000-53903.

<sup>342</sup> California Water Code §50932.

<sup>343</sup> California Water Code §50910.

<sup>344</sup> California Water Code §50933.

<sup>345</sup> California Water Code §50952.

<sup>346</sup> Government Code §56824.10.

## Boundary History

There have been four annexations to the District bounds since 1994. In 2004, the Thoroughbred Acres annexation added 111 acres to the District east of Arboga Road and south of McGowan Parkway, and the Feather Glen annexation added 129 acres east of Arboga Road and north of Plumas Arboga Road.<sup>347</sup> In 2006, the Pheasant Pointe annexation added 29 acres to the District south of 11th Avenue at the intersection of Arboga Road and Skyway Drive, and the Hansen Ranch annexation added 13 acres east of Arboga Road, west of the old Western Pacific Railroad, in the vicinity of the Feather Glen annexation.<sup>348</sup> In 2007, the Valley Development annexation added nearly two acres adjacent to Arboga Road and McGowan Parkway in Olivehurst.<sup>349</sup>

## **LOCAL ACCOUNTABILITY AND GOVERNANCE**

The District is governed by a five-member board. Board members serve staggered four-year terms. The principal act provides for board members to be elected by the landowners. Votes are proportional to the assessed value of the landowner's property—one vote for every \$1 of assessed value. In practice, elections are typically uncontested and the Board of Supervisors appoints the candidates. Current board members are Brent Hastey (Chair), Donald Graham, Jeff Phynney, Rick Brown, and Robert Shin.

As required by the District's by-laws, the Board meets 12 times per year on the first Tuesday of every month at 10 a.m. The District may call additional meetings as needed. Board meeting agendas are posted outside of the District office. Minutes are available at board meetings and upon request. The District does not have a website, so its documents are not available online; however, some documents regarding levee projects are available on the Three Rivers Levee Improvement Authority (TRLIA) website. TRLIA is a joint powers authority formed between RD 784 and Yuba County for the purpose of financing and conducting levee repairs within RD 784's boundaries.

All elections for governing body members since 1995 have been uncontested due to lack of interest among potential candidates. Since there have been no contested elections in recent history, landowners in the district have not participated in elections and voter turnout rates are unavailable.

The District demonstrated accountability in its disclosure of information and cooperation with LAFCO. The agency responded to LAFCO's written questionnaires and cooperated with LAFCO map inquiries and document requests.

Complaints may be submitted through phone calls, email, letters and in-person to the general manger or a board member. Most complaints are resolved without board intervention. In the case that a complaint is not resolved to the satisfaction of the landowner, the issue may be placed on the agenda and the constituent may voice concerns at the board meeting. The District does not track

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<sup>347</sup> LAFCO resolutions 2004-0030 and 2004-0036.

<sup>348</sup> LAFCO resolutions 2006-0019 and 2006-0022.

<sup>349</sup> LAFCO resolution 2007-09.

complaints, but estimates that approximately four complaints were received in 2006. With regard to customer service, complaints are generally regarding assessment rates.

The District participates in community outreach activities in collaboration with the Yuba County Sheriff's Department, the County Office of Emergency Services and the County Supervisor. The joint public workshops are an effort to inform constituents in new developments of the levee improvements and how those improvements affect the area. Further workshops will be held to educate voters on a proposed benefit assessment prior to an election to approve the assessment.

## **SERVICE DEMAND AND GROWTH**

The District bounds encompass residential and commercial areas, as well as some farmlands. Local business activities include construction, auto sales, storage, restaurants, retail, food processing, and the Plumas Lake Golf and Country Club.

The District considers its customer base to be the businesses and residences within the District. As of 2000, the district boundaries included approximately 250 businesses and 3,375 residences, according to Yuba County GIS.<sup>350</sup>

There were 10,522 residents in the District, according to 2000 Census data and GIS analysis. The District's population density was 319 per square mile, compared with the 2008 countywide density of 114. The area has experienced significant growth and development since that time.

Continued growth is anticipated within the District in the coming years as planned developments begin and continue construction within the East Linda Specific Plan (ELSP), Plumas Lake Specific Plan (PLSP) and North Arboga Study Areas (NASA). Planned and approved developments within the District's bounds or SOI are shown in Table A-44-1.

Major developments currently under construction within the District are the 535-acre Plumas Lake Cobblestone development, the 474.5-acre Rio Del Oro development, the 795.3-acre Wheeler Ranch development, and the 206.2-acre Riverside Meadows development, all located in the southern PLSP area. The 389.7-acre Edgewater development is partially located within District bounds, in the southwestern portion of the ELSP area. Major planned developments within District bounds include the 577.1-acre Country Club Estates project, the 549.9-acre Bear River development, the 254.5-acre Ross Ranch development, and the 150.1-acre Draper Ranch South development, all located in the PLSP area. The 63.6-acre Draper Ranch North development is located within the NASA. Excluding Edgewater, the total acreage of development area within the District bounds and SOI is over 5,400 (including 73 acres of non-residential), with over 17,300 planned dwelling units.

The District is not a land use authority, and does not hold primary responsibility for implementing growth strategies. However, the District does review all subdivision applications for conformity with the District's master drainage plan.

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<sup>350</sup> Yuba County, *Multi-Hazard Mitigation Plan*, 2007, p. 1-42.



## MANAGEMENT

The District employs a general manager, a secretary, a superintendent, and four workers. The staff report to the general manager who reports to the Board at monthly meetings. An interim general manager was hired in October 2007. The District has not yet developed protocol for employee evaluations and workload monitoring. The District reported that it has not performed employee evaluations in the past, but hopes to implement evaluations as a function of the new general manager.

The District does not perform benchmarking or agency-wide performance evaluations; however, the District's maintenance performance is monitored by DWR through its inspection program. RD 784 reported that it does prepare audited financial statements; however, the District was in the process of completing an audit for FY 05-06, as of the drafting of this report.

District planning efforts include a master drainage plan that was adopted in 2002. The District adopts an annual budget. The District does not prepare a capital improvement plan as the significant levee improvements are completed through TRLIA.

## FINANCING

The District's financial ability to provide services is constrained by available revenues and legal constraints on revenues. With respect to levee improvements funded through TRLIA, financing sources are adequate to complete levee improvements that are expected to allow the protected area to achieve protection from a 200-year flood event. In isolated areas with rural or otherwise sparse development, financing sources are not adequate to improve levees to urban standards. Current financing sources do not appear to be adequate to address needs for internal drainage facilities, particularly in low-lying portions of the Olivehurst area; the District and the County are both considering financing options to improve drainage in such areas.

The District received \$0.7 million in revenues in FY 06-07. RD 784 relies primarily on assessments to fund services. Assessments generated 65 percent of operating revenues in FY 05-06, and interest income generated 28 percent. In FY 06-07, RD 784 also began receiving assessment revenue from CSA 66 pass-through funds. CSA 66 levied assessments of \$299-482 per home in FY 05-06, with \$25 of that amount passed through to RD 784. The CSA 66 assessment is charged in portions of Plumas Lake and Arboga that lie within RD 784 bounds, in addition to some land north of McGowan in Olivehurst that lies outside RD 784 bounds. The District also receives plan review and inspection fees (four percent of revenue) and minimal income from rental fees and other miscellaneous sources.

Total expenditures for FY 06-07 were approximately \$1 million, 50 percent of which were for payroll, training, trustee compensation, and other contract services such as engineering and accounting.

The District had approximately \$447,604 in long-term debt at the end of FY 06-07. The long-term debt consists of a YCWA loan for deferred maintenance projects, a loan for a backhoe, and a loan for a new truck.

All capital improvements on the levee system are currently occurring through TRLIA. The District did not report any additional plans for significant capital outlays in the near future. The first

three phases of TRLIA's four-phase capital improvement plan were completed with developer fees, Proposition 13 funds, a YCWA loan, and grants from FEMA (\$5 million) and DFG (\$7 million). Proposition 13, which was adopted in 2000, provided bond funds for flood control projects statewide, of which \$63 million were granted to TRLIA. Developers in the Plumas Lake, Arboga and East Linda areas contributed under developer funding agreements through 2006. The County imposed development impact fees for TRLIA improvements in 2006; the fee is \$84,678 per acre in the Plumas Lake zone and \$11,690 per acre in the East Linda zone.

The fourth phase of the TRLIA levee improvement project underway—construction of a six-mile Feather River setback levee and other Feather River levee repairs—is projected to cost \$191 million. TRLIA is funding the fourth phase primarily with Proposition 1E funds (\$138 million) from the State. Proposition 1E, which was passed by California voters in 2006, authorized \$4.1 billion in bond funds for flood control projects. Other phase-four funding sources are a \$47 million loan assumed partly by the County and partly by YCWA, \$5 million in developer contributions, and \$1.4 million from RD 784.

The District was not able to provide an accurate assessment of the agency's unreserved cash balance, as interest from development impact fees had been incorrectly allocated to the District's funds. The District reported it was in the process of correcting the issue. The District has no formal policy on target financial reserves.

The District engages in joint financing arrangements related to levee improvements with TRLIA. TRLIA is a joint powers authority formed in 2004 between RD 784 and the County to provide for flood control improvements, including improvements to the levee system and related drainage improvements in the County. Financing of TRLIA is primarily through landowner assessments, State Proposition 13 and 1E funds, bonds sold through a community facilities district, certificates of participation, grants and development impact fees. Member agencies may make voluntary contributions or advances of funds to TRLIA to finance improvements or provide personnel, equipment or property in lieu of contributions or advances.

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## RECLAMATION SERVICE

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### NATURE AND EXTENT

RD 784 provides levee maintenance and internal drainage services. The District conducts vegetation removal, weed abatement and vector (squirrel) control, and upkeep of access roads as part of its levee maintenance work. The District is also responsible for flood fighting and levee patrol during high water events.

RD 784 provides most levee and drainage improvements through TRLIA. TRLIA manages and finances various improvement projects primarily within RD 784's boundaries. TRLIA has improved levees along the Feather, Yuba and Bear Rivers, and the Western Pacific Interceptor Canal and plans to further improve the levees along the Feather River to achieve 200-year flood protection for southwest Yuba County by 2009. TRLIA maintains the levees and drainage facilities as they are improved. Once completed and certified, they are returned to RD 784 for maintenance.

Internal drainage infrastructure within the District's boundaries is maintained by RD 784 in conjunction with the County. RD 784 maintains drainage channels, detention basins, and pumping

stations. Drainage facilities and gutters within residential subdivisions are maintained by the County. Water drains from the subdivisions into district-owned channels and detention basins, and is finally pumped over the levees into the Feather and Bear rivers and the Western Pacific Interceptor Canal.

## LOCATION

RD 784 provides services within its boundary area. The District also maintains approximately four miles of levees outside of its bounds along the south banks of the Yuba River and Best Slough.<sup>351</sup> The levees along the south bank of the Yuba were previously in State Maintenance Area 8, which was subsequently dissolved. The State transferred levee maintenance responsibility to the District without additional funding for the services. The levee along the south bank of Best Slough extends outside the District's boundaries to Hoffman Plumas Road. The District does not maintain non-project levees within its boundaries along the western bank of Algodon Canal, the north bank of Best Slough, and the east bank of the WPIC north of Best Slough. These levees are the responsibility of the landowners, according to the District.

## INFRASTRUCTURE

Key infrastructure in the District includes 35 miles of levees, as well as more than 43 miles of internal drainage ditches, eight pumping stations, and three detention basins.

RD 784 maintains 35 miles of project levees—12.9 along the east bank of the Feather River, 9.9 on the Western Pacific Interceptor Canal (WPIC), 0.8 on Best Slough, 4.7 on the Bear River, 0.3 on the north shore of Dry Creek, and 6.1 miles along the south bank of the Yuba River. The levees were originally constructed of silts, sands, dirt and gravel at least a century ago, and were not constructed to modern engineering and design standards.

Breaks in the levees in the last century have lead to several serious flood events within the District's boundaries. In 1907, the Feather River levee broke causing flooding in the area currently protected by RD 784. The District was subsequently created in 1908. Breaks in the Feather River levee maintained by the District have resulted in flooding in 1937, 1955 and 1997. Breaks in the Yuba River levee resulted in flooding in the community of Hammonton in 1950 and the communities of Linda and Olivehurst in 1986.

To ensure protection of the area from further flood events, TRLIA is conducting a four-phase project to achieve a 200-year level of flood protection along the Yuba, Feather and Bear rivers as well as the Western Pacific Interceptor Canal. Of the four phases of improvements, the first three had been completed and the fourth phase is under construction and is anticipated to be completed by April 2009. The improvements are projected to cost a total of approximately \$363 million.<sup>352</sup> The four phases of levee and drainage improvements consist of:

- Phase I (2004): Construction of a slurry wall on the Yuba River levee;

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<sup>351</sup> Yuba County, *Multi-Hazard Mitigation Plan*, 2007, p. 1-41.

<sup>352</sup> TRLIA, FY 07-08 Budget, 2007, p. 4.

- Phase II (2006): Construction of landslide seepage berms on the Yuba Levee, two slurry cutoff walls along the upper WPIC levee and a landslide toe ditch along the lower WPIC levee, reconstruction of the upper Bear levee at the confluence with the WPIC, raising of the crowns on the WPIC and lower Bear River levees, construction of a tie-in for the Bear River setback levee, installation of the new Pump Station 6, and the Olivehurst detention basin (a county-owned facility);
- Phase III (2006): Construction of the Bear River 2-mile setback levee, 20 relief wells, two detention basins, a foundation slurry wall for the Bear River setback levee; and
- Phase IV (2009): Construction of a slurry cutoff wall along Yuba River south levee (completed 2006). The Feather River 5.2-mile setback levee, construction of slurry walls, seepage and stability berms, and slope flattening of the Feather River east levee (scheduled for completion by 2009).

After the improvements are completed, the District does not anticipate any levee infrastructure needs or deficiencies.

A majority of the RD 784 territory lies outside the official 100-year floodplain. The floodplain is in flux due to FEMA map modernization, DWR levee evaluation and ongoing capital improvements. A preliminary 2006 FIRM depicts a majority of the RD 784 territory (with the exception of portions of the Edgewater subdivision in Linda) in the 100-year floodplain. Through collaborations on levee improvements with TRLIA, the area is expected to attain 200-year flood protection by Spring 2009. The U.S. Army Corps of Engineers (Army Corps) certified 11 miles of the recently improved levees along the Yuba River, western bank of the WPIC, and a portion along the Bear River for 100-year standards.<sup>353</sup> FEMA has begun revisions of the Flood Insurance Rate Maps. In 2006, FEMA released Preliminary Flood Insurance Rate Maps; FEMA has subsequently made modifications to the Linda and Olivehurst maps. As improvements are completed and certified by the Army Corps, FEMA is expected to amend the preliminary map designations. A map depicting the projected post-improvement floodplain (Figure 5-1) shows most of RD 784 outside the 100-year floodplain.

DWR inspects maintenance practices and observable levee conditions twice annually. DWR found no critical erosion sites potentially critical erosion sites or major maintenance deficiencies in RD 784 in 2005.<sup>354</sup> RD 784 levee overall maintenance has been rated as compliant with federal and state standards from 1996 to 2005. In 2005, District maintenance was rated as compliant with federal regulations in all categories: readiness for flood emergency, section and grade, encroachment control, vegetation control, rodent control, gate repair, rock revetment condition, crown and roadway condition, livestock control, pipe condition, and repairing cracks, erosion and caving. The 2006 inspection rated the District as satisfactory in vegetation and animal control. DWR implemented a more rigorous evaluation process in 2007; RD 784 levee maintenance was rated minimally acceptable due to erosion, vegetation, crown, and encroachment issues on its eastern WPIC levee and the segment of the Yuba River levee north of Simpson Lane. Maintenance was

<sup>353</sup> The U.S. Army Corps of Engineers only certifies levees for 100-year protection as this is the federal standard. This does not preclude the levees from being certified by DWR for 200-year protection.

<sup>354</sup> DWR Division of Flood Management, *2005 Inspection & Integrity Report*, February 2006.



rated acceptable in 2007 on the District's Feather River, Bear River, Dry Creek, western WPIC, and a segment of its Yuba River levees.

DWR is in the planning stages of a new and more in-depth levee integrity evaluation process. As the District's levees are undergoing significant improvements and various engineer evaluations, DWR has in the interim accepted the Army Corps boring evaluations. DWR is using the geotechnical boring information gathered by TRLIA as part of its levee repair program, and reviewing the evaluations and designs prepared by TRLIA consultants to conduct its own independent levee evaluation. DWR anticipates completing an analysis by August 2008. Levee integrity information will be more comprehensive in future MSR reports as a result of these efforts.

Service challenges reported by the District include meeting federal and state standards for seepage, ensuring adequate financing for increased maintenance of the improved levee system, and controlling the use of levees for recreation, such as motorcycles and other off-road vehicles, which leads to damage of the levees.

Drainage infrastructure maintained by the District includes 43 miles of internal drainage ditches, eight pumping stations, and five detention basins. TRLIA has constructed an additional three detention basins with a combined capacity of 590 acre-feet, which are to be transferred to RD 784 upon completion and certification.

The drainage planning area is the RD 784 watershed, which extends from the community of Linda to the north, the Feather River to the west, the Bear River to the south, and the WPIC to the east. The plan found that existing flows exceeded drainage channel capacity in the Plumas Lake area, existing ponding problems in the north-central portion of the District, and existing ponding at pump stations in Basin C, and a lack of Algodon Canal capacity south of Linda.

The 2002 drainage master plan determined that pump stations 2 and 3 do not have adequate pumping capacity to handle 100-year flows.<sup>355</sup> In addition, Lateral 14 is undersized at Ella Road, which causes flows to back up north of the roadway,<sup>356</sup> and Algodon Canal and attached culverts lack capacity, which leads to ponding and possible spills between Gledhill Avenue and Garden Avenue and between SR 70 and Lindhurst Avenue.<sup>357</sup> The additional TRLIA detention basins are intended to address these issues in part. Remaining drainage deficiencies include a standby pumping unit and backup power source recommended at Pump Station 3,<sup>358</sup> which will be installed as part of the Phase 4 levee improvements.

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<sup>355</sup> RD 784, *Drainage Master Plan*, 2002, p. 5-1 and 6-1.

<sup>356</sup> *Ibid*, p. 6-1.

<sup>357</sup> *Ibid*, p. 7-1.

<sup>358</sup> *Ibid*, p. 6-1.

# ATTACHMENT 1

## GROUNDWATER MANAGEMENT AND RECHARGE PROJECTS

1. If the Proposal does not contain a groundwater management or recharge project or none of the projects in the Proposal have a potential to impact groundwater, whether positively or negative, so indicate, and include in Attachment 1 the justification for such a conclusion.

The North Drainage Basin C Regional Detention Pond and Pump Station No. 10 project is designed as a local flood management project that does have groundwater impacts, refer to Q2 below.

2. Identification of projects in the proposal that involve any groundwater management or groundwater recharge or may have either positive or negative groundwater impacts.

The project includes two components, the North Drainage Basin C Regional Detention Pond (“Ella Detention Basin”) and associated Pump Station No. 10 facilities. As more fully described in Attachment 11, the detention basin component of this project does have positive groundwater management impacts.

3. The agency(ies) that will implement such projects(s)

Reclamation District 784

4. The status of the applicable GWMP compliance option as described below

The GWMP, adopted in December 2010, was prepared and implemented in compliance with CWC §10753.7.

The Groundwater Management Plan, prepared by Yuba County Water Agency, dated December 2010, is attached.

# ATTACHMENT 1

## CONSISTENCY WITH AN ADOPTED IRWM PLAN

1. The applicant must provide a listing of projects proposed for funding and how those projects are consistent with the adopted IRWM Plan. See Guidelines III B.

Reclamation District 784 is requesting funding for the construction of Pump Station 10 as well as credit for the construction and expansion of the previously constructed North Drainage Basin C (Phase 1 of the Basin C Regional Detention Pond). These projects are listed within the adopted Yuba County IRWM Plan Project as Projects ST13 and ST14 respectively.

The IRWM Plan includes both the North Drainage Basic C Regional Detention Pond and Pump Station No. 10 with the objectives of stormwater capture and management, and water quality protection and improvement.

The IRWM plan indicates, “A portion of the North Regional Detention Pond has been constructed, which was considered Phase 1 of the Basin C Regional Detention Pond. The remaining portion of the detention pond in conjunction with construction of Pump Station No. 10 will completely remove areas adjacent to Lateral 15 and Algodon Canal from the 100-year floodplain.

The improvements for Pump Station No. 10 include construction of a new 60 cfs pump station with a redundant pump and backup generator. The pump station will remove the water from the North Drainage Basin C Regional Detention Pond and pump the water directly to the Feather River in the vicinity of Pump Station No. 9.”

Furthermore, the plan states that that the expansion of the North Drainage Basin C Detention Pond per Drainage Master Plan for RD 784 (2002), in conjunction with Pump Station No. 10, will remove areas of RD 784 from the 100-year floodplain.

The Yuba County Integrated Regional Water Management Plan, prepared by the Yuba County IRWM Plan Water Management Group, dated February 2008, is attached.